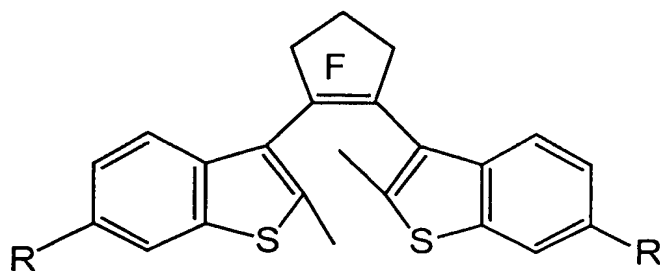


I CLAIM :

1/ A secure, optically readable data medium comprising a data-carrying zone that is readable by a read light beam, and at least a portion that is photosensitive, being
5 provided with a photosensitive material and exposed to the read light beam, the photosensitive material presenting at least one optical property that can be modified by the read light beam, wherein the photosensitive material contains an active compound taken
10 from the diarylethene family.

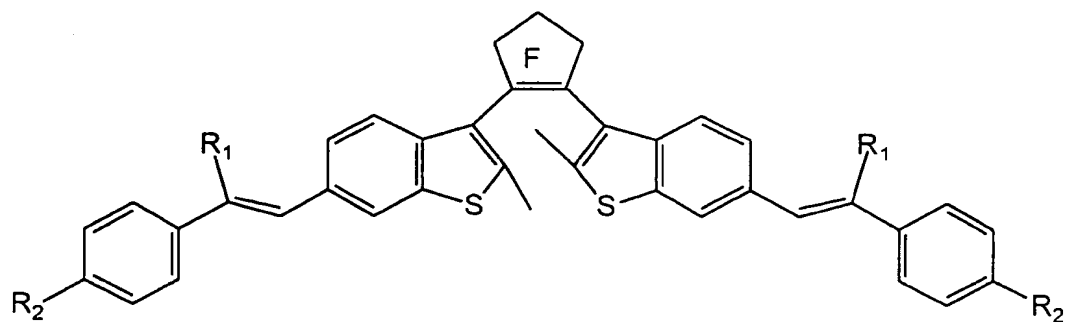
2/ A data medium according to claim 1, in which the compound from the family of diarylethenes is a substituted or non-substituted compound having the
15 following general formula:



(I)

20 in which R represents a substituted or non-substituted styryl radical.

3/ A data medium according to claim 2, in which the
25 compound from the family of diarylethenes is a substituted or non-substituted compound having the following general formula:



(I')

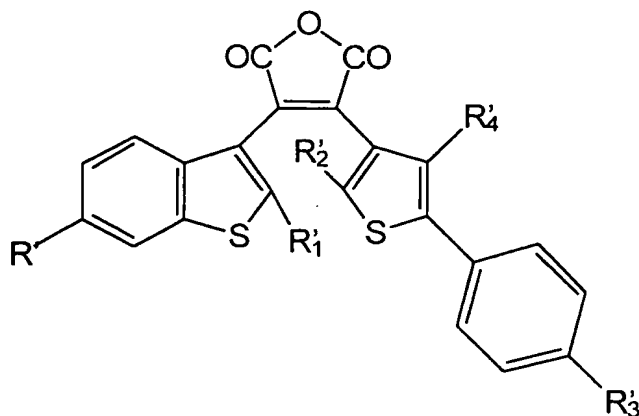
in which:

- 5 R₁ and R₂ are each selected independently of each other from: a hydrogen atom; a C1 to C6 alkyl group; and a C1 to C6 alkoxy group.

- 10 4/ A data medium according to claim 3, in which R₁ represents a hydrogen atom and R₂ represents -O-CH₃.

- 5/ A data medium according to claim 3, in which R₁ represents CH₃ and R₂ represents a hydrogen atom.

- 15 6/ A data medium according to claim 1, in which the compound from the family of diarylethenes is a substituted or non-substituted compound having the following general formula:



(II)

in which each of R' , R'_1 , R'_2 , R'_3 , and R'_4 is selected independently of one another from: a hydrogen atom; an alkyl group; and an alkoxy group.

5 7/ A data medium according to claim 6, in which R' represent a hydrogen atom, R'_1 represents $-O-CH_3$, R'_2 and R'_4 represents CH_3 , and R'_3 represents $-O-CH_3$.

10 8/ A data medium according to claim 1, constituting an optical disk.

9/ A data medium according to claim 8, selected from CD-ROMs and DVDs.

15 10/ A data medium according to claim 1, having a data zone which includes at least part of said photosensitive portion.

20 11/ A data medium according to claim 1, comprising a transparent matrix having a data-carrying face on which said photosensitive material is deposited in the form of a fine layer, the layer of photosensitive material and the data-carrying face of the matrix being covered in a reflecting layer of metallization.

25 12/ A data medium according to claim 1, in which the photosensitive material is in the form of a layer of thickness lying in the range $0.2 \mu m$ to $60 \mu m$.

30 13/ A data medium according to claim 1, in which the photosensitive material also comprises a solid transparent polymer having the active compound of said photosensitive material mixed therein.

35 14/ A data medium according to claim 13, in which the active compound is at a concentration of 10% to 30% by weight relative to the transparent polymer.

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15/ A data medium according to claim 1, in which the
photosensitive material is blue in color and is adapted
to fade on receiving sufficient light energy in a
5 wavelength range that includes the wavelength value
635 nm.

16/ A data medium according to claim 1, in which the
photosensitive material is colorless and is adapted to
10 become colored blue on receiving sufficient light energy
in a wavelength range lying at least in part in the range
300 nm to 400 nm.

17/ A data medium according to claim 1, in which the
15 photosensitive portion of the data medium is covered by a
removable opaque mask (10).

18/ A data medium according to claim 1, constituting a
DVD comprising two substrates (11, 12) bonded together by
20 means of an intermediate layer (5) formed at least in
part by said photosensitive material, said intermediate
layer (5) comprising at least the active compound of said
photosensitive material together with a solid transparent
polymer which adheres to both substrates (11, 12) of the
25 DVD.

19/ A data medium according to claim 18, in which said
transparent polymer is a photopolymer.

20/ A data medium according to claim 19, in which said
30 photopolymer is adapted to polymerize on being irradiated
with ultraviolet radiation.

21/ A process for checking that an optically readable
35 data medium is an original, said optically readable data
medium comprising a data carrying zone that is readable
by a read light beam and at least a portion that is

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